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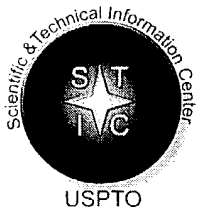
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# **STIC Search Report**

## **EIC 2100**

**STIC Database Tracking Number: 132417**

**TO: Michael B Holmes**

**Location: 2C06**

**Art Unit : 2121**

**Thursday, September 16, 2004**

**Case Serial Number: 09/531964**

**From: David Holloway**

**Location: EIC 2100**

**PK2-4B30**

**Phone: 308-7794**

**david.holloway@uspto.gov**

### **Search Notes**

Dear Examiner Holmes,

Attached please find your search results for above-referenced case.

Please contact me if you have any questions or would like a re-focused search.

David



Set	Items	Description
S1	11906439	DOCUMENT? OR TEXTFILE? OR TEXT()FILE?? OR RECORD? ? OR PAGE? OR MANUSCRIPT? OR EMAIL? OR (E OR ELECTRONIC)() (MAIL? OR MESSAGE?)
S2	198323	S1(3N) (CATEGORI? OR ORGANI? OR INDEX? OR IDENTIFI? OR SORT OR SORTS OR SORTING OR RANK OR RANKS OR RANKING OR RANKED OR - SORTED)
S3	257405	S1(5N) (CRITERIA? OR CHARACTERISTIC? OR FEATUR?)
S4	538110	S1(8N) (TERM? OR WORD? OR SUBJECT? OR PHRASE? OR CONCEPT? OR KEYWORD? OR KEYTERM?)
S5	12485349	PLACEMENT? OR LOCATION? OR POSITION? OR ORGANI?ATION OR ARRANGEMENT? OR (SENTENC? OR PARAGRAPH? OR PAGE?) () (NUMBER?)
S6	20101047	NEXT? OR ITERAT? OR REITERAT? OR FOLLOWING? OR SEQUENTIAL? OR ANOTHER? OR AGAIN? OR REPEAT?
S7	375604	S1(4N) (COMPAR? OR DUPLICAT? OR SAME? OR SIMILAR? OR MATCH? OR ANALY? OR CORRELAT? OR COLLAT?)
S8	353376	S3(2N) (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR - MANY OR SEVERAL OR VARIOUS OR DIFFERENT OR SECOND OR 2ND) OR - VECTOR?
S9	642	S2(10N)S3(10N)S4
S10	21	S4(10N)S5(10N)S8
S11	60	S7(10N)S9
S12	81	S10 OR S11
S13	31	S5(S)S6(S)S9
S14	109	S12 OR S13
S15	56	RD (unique items)
S16	50	S15 NOT PY>2000
S17	45	S16 NOT PD=20000309:20020309
S18	45	S17 NOT PD=20020309:20040922
File	275:	Gale Group Computer DB(TM) 1983-2004/Sep 16 (c) 2004 The Gale Group
File	47:	Gale Group Magazine DB(TM) 1959-2004/Sep 16 (c) 2004 The Gale group
File	75:	TGG Management Contents(R) 86-2004/Sep W1 (c) 2004 The Gale Group
File	636:	Gale Group Newsletter DB(TM) 1987-2004/Sep 16 (c) 2004 The Gale Group
File	16:	Gale Group PROMT(R) 1990-2004/Sep 16 (c) 2004 The Gale Group
File	624:	McGraw-Hill Publications 1985-2004/Sep 15 (c) 2004 McGraw-Hill Co. Inc
File	484:	Periodical Abs Plustext 1986-2004/Sep W1 (c) 2004 ProQuest
File	613:	PR Newswire 1999-2004/Sep 16 (c) 2004 PR Newswire Association Inc
File	813:	PR Newswire 1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc
File	141:	Readers Guide 1983-2004/Jul (c) 2004 The HW Wilson Co
File	239:	Mathsci 1940-2004/Nov (c) 2004 American Mathematical Society
File	696:	DIALOG Telecom. Newsletters 1995-2004/Sep 15 (c) 2004 The Dialog Corp.
File	553:	Wilson Bus. Abs. FullText 1982-2004/Jul (c) 2004 The HW Wilson Co
File	621:	Gale Group New Prod. Annou. (R) 1985-2004/Sep 16 (c) 2004 The Gale Group
File	674:	Computer News Fulltext 1989-2004/Aug W4 (c) 2004 IDG Communications
File	88:	Gale Group Business A.R.T.S. 1976-2004/Sep 15 (c) 2004 The Gale Group
File	369:	New Scientist 1994-2004/Sep W1 (c) 2004 Reed Business Information Ltd.
File	160:	Gale Group PROMT(R) 1972-1989 (c) 1999 The Gale Group
File	635:	Business Dateline(R) 1985-2004/Sep 16 (c) 2004 ProQuest Info&Learning
File	15:	ABI/Inform(R) 1971-2004/Sep 16

(c) 2004 ProQuest Info&Learning  
File 9:Business & Industry(R) Jul/1994-2004/Sep 15  
(c) 2004 The Gale Group  
File 13:BAMP 2004/Sep W1  
(c) 2004 The Gale Group  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2004/Sep 16  
(c) 2004 Business Wire.  
File 647:CMP Computer Fulltext 1988-2004/Sep W1  
(c) 2004 CMP Media, LLC  
File 98:General Sci Abs/Full-Text 1984-2004/Jul  
(c) 2004 The HW Wilson Co.  
File 148:Gale Group Trade & Industry DB 1976-2004/Sep 16  
(c)2004 The Gale Group  
File 570:Gale Group MARS(R) 1984-2004/Sep 16  
(c) 2004 The Gale Group

18/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01868529 SUPPLIER NUMBER: 17610980 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Document imaging products help schools eliminate "paper jams." (includes  
vendor directory) (Buyers Guide)**  
Carmona, Jeff  
T H E Journal (Technological Horizons In Education), v23, n4, p8(3)  
Nov, 1995  
DOCUMENT TYPE: Buyers Guide ISSN: 0192-592X LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1394 LINE COUNT: 00119

... software, which features 3D "Tree" and "Grid" views that help one  
understand large numbers of **documents** at a glance. Display **criteria** may  
be changed on-the-fly to group files by author, date or content attribute.

Its TextDataBase engine, based on linguistic research at the Xerox  
Palo Alto Research Center (PARC), **analyzes documents** as they are  
**indexed** into the system, matching **words** to their roots

18/3,K/5 (Item 5 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01579865 SUPPLIER NUMBER: 13047883 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Pages, pictures, & PCs: words or images, monochrome or color: scanners and  
OCR make any data PC-compatible. (optical character recognition) (Special  
Section on Scanners, includes related articles on the scanner standard  
TWAIN, the same image scanned by different devices, tracking data,  
converting fax data to text, and buying scanners) (Buyers Guide)  
Keizer, Gregg  
Computer Shopper, v13, n1, p382(15)  
Jan, 1993  
DOCUMENT TYPE: Buyers Guide ISSN: 0886-0556 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6330 LINE COUNT: 00488

... 386 and 486 computers some of the sophisticated abilities once  
reserved for minis and mainframes. **PageKeeper** 's automatic **document**  
input, **keywording analysis** , image compression, and powerful  
search-and-retrieval engine--able to use one **document** , hypertext-fashion,  
as search **criteria** to find similar ones--promise to make gathering,  
**organizing** , and delivering **documents** on your PC easier than ever before.  
When you get right down to it, scanning...

18/3,K/6 (Item 6 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01549488 SUPPLIER NUMBER: 13039891 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Personalized information delivery: an analysis of information filtering  
methods. (Information Filtering) (Technical) (Cover Story)**  
Foltz, Peter W.; Dumais, Susan T.  
Communications of the ACM, v35, n12, p51(10)  
Dec, 1992  
DOCUMENT TYPE: Cover Story ISSN: 0001-0782 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 7965 LINE COUNT: 00629

... the analysis performed by SVD geometrically. The result of the SVD  
is a k-dimensional **vector** space containing a **vector** for each **term** and  
each **document**. The **location** of **term vectors** reflects the  
correlations in their usage across **documents**. Similarly, the **location**  
of **document vectors** reflects correlations in **term** usage. In this  
space the cosine or dot product between **vectors** corresponds to their  
estimated similarity. Retrieval proceeds by using the terms in a query to  
...

18/3,K/12 (Item 2 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04632438 SUPPLIER NUMBER: 16452979 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Visual Recall vs. PageKeeper 2.0: filing cabinets of the future. (XSoft;  
Caere Corp) (Software Review) (Evaluation) (Brief Article)  
O'Malley, Chris  
PC/Computing, v8, n3, p79(1)  
March, 1995  
DOCUMENT TYPE: Evaluation Brief Article ISSN: 0899-1847  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 585 LINE COUNT: 00053

... s OmniPage program, and a powerful search engine that automatically indexes the full text of **documents** and recognizes **similarities** by spotting root **words** . There's also **PageKeeper** 's hallmark, a prioritizing **feature** called Weighted Relevance Retrieval: Word searches produce a color-coded and startlingly accurate **ranking** of relevant **documents** .

However, there's nothing unearthly about PageKeeper's price. At less than \$100 on the...



18/3,K/15 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

03923761 Supplier Number: 50163274 (USE FORMAT 7 FOR FULLTEXT)

**New Services Aim To Boost Efficiency Of Search Engines**

Electronic Advertising & Marketplace Report, v12, n13, pN/A

July 14, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 861

... take a more proactive role in helping marketers create more effective search listings. WebPosition Gold **features** **Page** Generator, which collects **keywords** and details about a business and generates HTML doorway pages for selected search engines. An additional service is **page** critic, which **compares** search **pages** to the top **ranking** **pages** on a search engine. Since the universal demand from Web marketers is for statistics, WebPosition...

18/3,K/27 (Item 2 from file: 553)  
DIALOG(R)File 553:Wilson Bus. Abs. FullText  
(c) 2004 The HW Wilson Co. All rts. reserv.

04286454 H.W. WILSON RECORD NUMBER: BWBA00036454 (USE FORMAT 7 FOR  
FULLTEXT)

Verifying the proximity and size hypothesis for self-organizing maps.

AUGMENTED TITLE: Kohonen Self-organizing Map unsupervised learning  
technique

Lin, Chienting

Chen, Hsinchun; Nunamaker, Jay F

Journal of Management Information Systems (J Manage Inf Syst) v. 16 no3

(Winter 1999/2000) p. 57-70

LANGUAGE: English

WORD COUNT: 4401

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... of terms in decreasing order of frequency for the entire  
collection. Based on the indexing **terms** identified, each **document** then  
is represented by a **term vector** of 1 or 0. The number of 1s in each  
**document** is equal to the number of **terms** in the **document** , and each  
**vector position** corresponds with one unique **term** .

We chose a 20'10 grid map for displaying SOM outputs, based on what  
would...

...of running the same input file against the trained map and reporting the  
map grid **location** that is the closest in Euclidean distance to each  
input. Each **document** ( **vector** ) and each **term** (represented as a unit  
**vector** ) were thus mapped to a node and also to a region (of the same nodes  
...

Set	Items	Description
S1	673811	DOCUMENT? OR FILE? OR RECORD? ? OR PAGE? OR MANUSCRIPT? OR EMAIL? OR (E OR ELECTRONIC)() (MAIL? OR MESSAG?)
S2	2124288	CATEGORI? OR ORGANI? OR INDEX? OR IDENTIFI?
S3	925454	CRITERIA? OR CHARACTERISTIC? OR FEATUR?
S4	1839521	TERM? OR WORD? OR SUBJECT? OR PHRASE? OR CONCEPT? OR KEYWORD? OR KEYTERM? OR KEY() (WORD? OR TERM? OR PHRASE?)
S5	3272993	PLACEMENT? OR LOCATION? OR POSITION? OR ORGANIZATION OR ARRANGEMENT? OR (SENTENC? OR PARAGRAPH? OR PAGE?)() (NUMBER?)
S6	2831822	NEXT? OR FOLLOWING? OR SEQUENTIAL? OR ANOTHER? OR AGAIN? OR REPEAT?
S7	3060282	COMPAR? OR DUPLICAT? OR SAME? OR SIMILAR? OR MATCH? OR ANALY? OR CORRELAT? OR COLLAT? OR SIMILAR?
S8	71144	S1 AND S2
S9	5199	S8 AND S3
S10	1680	S9 AND (S4 OR S5)
S11	1087	S10 AND (S6 OR S7)
S12	207	S9 AND S4 AND S5
S13	99	S12 AND (S6 OR ITERAT? OR REITERAT?)
S14	24	S13 AND IC=G06F-017?
S15	16	S13 AND MC=(T01-J05B?)
S16	28	S14 OR S15
S17	4579	S1 AND S7 AND S4 AND S5
S18	1510	S17 AND (S6 OR ITERAT? OR REITERAT? OR FOLLOWING)
S19	530	S18 AND (S2 OR S3)
S20	112	S19 AND IC=G06F-017?
S21	26126	S1(4N)S7
S22	35	S20 AND S21
S23	23	S22 AND MC=T01-J05B?
S24	47	S23 OR S16
S25	47	IDPAT (sorted in duplicate/non-duplicate order)
S26	46	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/May(Updated 040903)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200459

(c) 2004 Thomson Derwent

26/5/9 (Item 9 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015738544 \*\*Image available\*\*  
WPI Acc No: 2003-800745/200375  
Related WPI Acc No: 2000-292891; 2000-338800; 2004-419529  
XRPX Acc No: N03-641642

Profile terms managing method for knowledge management, involves selecting profile terms and allocating terms to private portion having confidence value based on contextual characteristic of profile terms

Patent Assignee: TACIT KNOWLEDGE SYSTEMS INC (TACI-N)  
Inventor: EPELMAN-WANG H; GILMOUR D L; GOLDBERG J M; SANDERS R; WANG E  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6640229	B1	20031028	US 98156468	A	19980918	200375 B
			US 99271022	A	19990317	
			US 2000697700	A	20001025	

Priority Applications (No Type Date): US 2000697700 A 20001025; US 98156468 A 19980918; US 99271022 A 19990317

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6640229	B1	57	G06F-017/30	CIP of application US 98156468	
				CIP of application US 99271022	

Abstract (Basic): US 6640229 B1

NOVELTY - The method involves selecting profile terms allocated to a private portion of a user profile according to a pre-determined criterion. The selected profile terms are moved to a public portion of the user profile based on another criterion. The profile terms allocated to the private portion have a confidence value based on a contextual characteristic of the profile terms within an electronic document .

DETAILED DESCRIPTION - The pre-determined criteria are threshold levels for the confidence value. A treatment option is associated for a profile term to determine when the profile term is moved to the public portion.

An INDEPENDENT CLAIM is also included for a computer readable medium having stored computer-executable instructions for performing a method to automatically allocate profile terms between a public and private profile of a user.

USE - Used for managing a user knowledge profile within a database.

ADVANTAGE - The method increases the public knowledge resources of the organization without over-burdening the user. The user can utilize the agent to automatically publish profile terms rather than having to continually decide which terms should be published and the user maintains control over the criteria used by the agent in publishing the profile terms .

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of a method of performing a profile modification process.  
pp; 57 DwgNo 17E/27

Title Terms: PROFILE; TERM ; MANAGE; METHOD; MANAGEMENT; SELECT; PROFILE; TERM ; ALLOCATE; TERM ; PRIVATE; PORTION; CONFIDE; VALUE; BASED; CHARACTERISTIC ; PROFILE; TERM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

26/5/9 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015738544 \*\*Image available\*\*  
WPI Acc No: 2003-800745/200375  
Related WPI Acc No: 2000-292891; 2000-338800; 2004-419529  
XRPX Acc No: N03-641642

Profile terms managing method for knowledge management, involves selecting profile terms and allocating terms to private portion having confidence value based on contextual characteristic of profile terms

Patent Assignee: TACIT KNOWLEDGE SYSTEMS INC (TACI-N)  
Inventor: EPELMAN-WANG H; GILMOUR D L; GOLDBERG J M; SANDERS R; WANG E  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6640229	B1	20031028	US 98156468	A	19980918	200375 B
			US 99271022	A	19990317	
			US 2000697700	A	20001025	

Priority Applications (No Type Date): US 2000697700 A 20001025; US 98156468 A 19980918; US 99271022 A 19990317

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6640229	B1	57	G06F-017/30	CIP of application US 98156468	
				CIP of application US 99271022	

Abstract (Basic): US 6640229 B1

NOVELTY - The method involves selecting profile terms allocated to a private portion of a user profile according to a pre-determined criterion. The selected profile terms are moved to a public portion of the user profile based on another criterion. The profile terms allocated to the private portion have a confidence value based on a contextual characteristic of the profile terms within an electronic document .

DETAILED DESCRIPTION - The pre-determined criteria are threshold levels for the confidence value. A treatment option is associated for a profile term to determine when the profile term is moved to the public portion.

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DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of a method of performing a profile modification process.

pp; 57 DwgNo 17E/27

Title Terms: PROFILE; TERM ; MANAGE; METHOD; MANAGEMENT; SELECT; PROFILE; TERM ; ALLOCATE; TERM ; PRIVATE; PORTION; CONFIDE; VALUE; BASED; CHARACTERISTIC ; PROFILE; TERM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

26/5/13 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015378257 \*\*Image available\*\*  
WPI Acc No: 2003-439195/200341  
XRPX Acc No: N03-350407

Patient record searching method for health care information system,  
involves initiating search of patient record , based on search criteria  
including information for identifying particular document and patient  
visit

Patent Assignee: BOWEN S W (BOWE-I)  
Inventor: BOWEN S W  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030036927	A1	20030220	US 2001313662	P	20010820	200341 B
			US 2002219547	A	20020815	

Priority Applications (No Type Date): US 2001313662 P 20010820; US  
2002219547 A 20020815

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030036927	A1		21	G06F-007/00	Provisional application US 2001313662

Abstract (Basic): US 20030036927 A1

NOVELTY - A search criteria including information for identifying  
a particular document , a particular patient visit and a particular  
organization , is received. Another criteria identifying a category  
of the search criteria is received. A search of the patient record  
in initiated, based on both criteria .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
following :

- (1) user interface provision method; and
- (2) record explorer.

USE - For searching patient record in clinical and health care  
information systems used by health care provider such as hospital,  
nursing home, assisting living care arrangement , home health care  
arrangement , hospice arrangement , critical care arrangement ,  
health care clinic, physical therapy clinic, chiropractic clinic and  
dental office for monitoring health and welfare of patient.

ADVANTAGE - Allows users to define their desired search criteria  
easily. Provides the ability search for data related to clinically  
relevant keywords and concepts .

DESCRIPTION OF DRAWING(S) - The figure shows the health care  
information system.

pp; 21 DwgNo 1/10

Title Terms: PATIENT; RECORD ; SEARCH; METHOD; HEALTH; CARE; INFORMATION;  
SYSTEM; INITIATE; SEARCH; PATIENT; RECORD ; BASED; SEARCH; CRITERIA ;  
INFORMATION; IDENTIFY; DOCUMENT ; PATIENT; VISIT

Derwent Class: S05; T01

International Patent Class (Main): G06F-007/00

International Patent Class (Additional): G06F-017/00 ; G06F-017/30 ;

G06F-017/60

File Segment: EPI

26/5/15 (Item 15 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015194132 \*\*Image available\*\*  
WPI Acc No: 2003-254666/200325  
XRPX Acc No: N03-201886

Method for summing up repeat of string in data document which is  
greatly useful for super high-capacity of data document , especially for  
data document that has strings with higher frequency of display

Patent Assignee: INVENTEC BESTA CO LTD (INVE-N)

Inventor: CHEN H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
TW 490622	A	20020611	TW 2000126955	A	20001215	200325 B

Priority Applications (No Type Date): TW 2000126955 A 20001215

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
TW 490622	A		G06F-017/30	

Abstract (Basic): TW 490622 A

NOVELTY - Provided is a method for summing up **repeat** of string in  
data **document** . This method uses the biased address in the data  
**document** of the first characters between two identical characters in  
**sequential arrangement** as the **index** value according to intervals  
among each identical character when an electric product proceeds  
compressing for a data **document** stored inside it, and uses  
corresponding character interval to proceed **arrangement** to create an  
**index** table. When summing up for string that has high frequency of  
display in the data **document** , it is able to replace real string in  
the data **document** with the **index** value and use the **index** table as  
the **index** for **comparison** . It **records** frequency that strings  
display **repeatedly** according to the number of **matched words** and  
sums up **repeat** frequency of strings of number of different **matched**  
**words** to fast complete summing up frequency of strings that display  
**repeatedly** .

DETAILED DESCRIPTION - It also makes the electric product obtain  
**feature** of the data **document** according to the results after summing  
up to use the best compressing solution to compress the data **document**  
for increasing data compression efficiency. This method is greatly  
useful for super high-capacity of data **document** , especially for data  
**document** that has strings with higher frequency of display.

DwgNo 1/1

Title Terms: METHOD; SUM; UP; **REPEAT** ; STRING; DATA; **DOCUMENT** ; USEFUL;  
SUPER; HIGH; CAPACITY; DATA; **DOCUMENT** ; DATA; **DOCUMENT** ; STRING; HIGH;  
FREQUENCY; DISPLAY

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

26/5/17 (Item 17 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014835504 \*\*Image available\*\*  
WPI Acc No: 2002-656210/200270  
XRPX Acc No: N02-518669

**Entity location identification method in multilingual environment,  
involves constructing translation table including at least a pair of  
natural language term for descriptor**

Patent Assignee: JAQUA E (JAQU-I)

Inventor: JAQUA E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020099533	A1	20020725	US 2001768989	A	20010123	200270 B

Priority Applications (No Type Date): US 2001768989 A 20010123

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020099533	A1		22	G06F-017/20	

Abstract (Basic): US 20020099533 A1

NOVELTY - An entity **identification** and at least one **characteristic** such as product and service of the entity are stored in specified language in an entity **record**. A translation table (98) including at least a pair of natural language **terms** for a descriptor is constructed. A specified natural language **term** is used as a search parameter. The **record** for the entity **characteristics** corresponding to the search **term** is searched.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following :

- (1) Method of communication in multilingual environment; and
- (2) Data processing system.

USE - For identifying **location** of businesses or other entities engaged in activities of interest in multilingual environment.

ADVANTAGE - Facilitates accurate **location** of entities and communication between entities that do not share a common language, thereby avoiding a barrier created by language.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data processing system.

Translation table (98)

pp; 22 DwgNo 2/10

Title Terms: ENTITY; LOCATE; IDENTIFY; METHOD; ENVIRONMENT; CONSTRUCTION; TRANSLATION; TABLE; PAIR; NATURAL; LANGUAGE; **TERM** ; DESCRIBE

Derwent Class: T01

International Patent Class (Main): G06F-017/20

File Segment: EPI



26/5/20 (Item 20 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014168823 \*\*Image available\*\*  
WPI Acc No: 2001-653051/200175  
XRPX Acc No: N01-488494

Document **data processor** e.g. wordprocessor , has edit unit which reads out object and index data from respective memory and displays it based on object display demand sent from user

Patent Assignee: NEC CORP (NIDE )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001273314	A	20011005	JP 200087961	A	20000328	200175 B

Priority Applications (No Type Date): JP 200087961 A 20000328

Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2001273314 A 13 G06F-017/30

Abstract (Basic): JP 2001273314 A

NOVELTY - A storage unit (22) stores **positional** information of an object in a **document** based on **analysis** information about the object. A management unit (31) manages the **index** information synthesized with **analysis** and stored **positional** information of the object. An edit unit (42) reads out the object and **index** data from a pair of memories (32,33) and displays it, based on the object display demand sent from an user.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following :

- (a) **Document** data processing method;
  - (b) Recording medium storing **document** data processing program
- USE - **Document** data processor e.g. **wordprocessor** .

ADVANTAGE - Utilization of the object in a diagram or the table is made simple, based on the **index** of the object.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the **document** data processor. (Drawing includes non-English language text).

Storage unit (22)  
Management unit (31)  
Memories (32,33)  
Edit unit (42)  
pp; 13 DwgNo 1/10

Title Terms: **DOCUMENT** ; DATA; PROCESSOR; EDIT; UNIT; READ; OBJECT; **INDEX**  
; DATA; RESPECTIVE; MEMORY; DISPLAY; BASED; OBJECT; DISPLAY; DEMAND; SEND  
; USER

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

International Patent Class (Additional): **G06F-017/21**

File Segment: EPI

26/5/21 (Item 21 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013997826

WPI Acc No: 2001-482041/200152

XRPX Acc No: N01-356749

Document **classification for information retrieval system, involves**  
comparing **created term and document vectors and storing document**  
at **location relative to category node with term vector with preset**  
**relevance ranking**

Patent Assignee: SUN MICROSYSTEMS INC (SUNM )

Inventor: MOCKER J D; SNOW W A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6185550	B1	20010206	US 97874783	A	19970613	200152 B

Priority Applications (No Type Date): US 97874783 A 19970613

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6185550	B1	19	G06F-017/30		

Abstract (Basic): US 6185550 B1

NOVELTY - **Term** vectors containing weights assigned to each of one or more common **terms** in the corresponding **terms file** are created and are **compared** with created **document** vectors of a **document** to provide relevance ranking between the **terms file** and **document** . The **document** is stored at a **location** corresponding to category node having a **term** vector which has a relevance ranking that **matches** a selected **criteria** .

DETAILED DESCRIPTION - A class hierarchy is created by providing several category nodes, each of which create **term files** . Class hierarchy having a root category node within a free data structure is initialized and displayed. User selected commands for manipulating the class hierarchy are entered. A category command is processed in response to the user selected command having predefined state which causes the class hierarchy to contain several category nodes. Category nodes include category name, node type, node ID, parent ID, link ID which are all stored in the database. When the node type is predefined type a new category node is allowed to be added to the selected category nodes, otherwise new category node is prevented from being added to the category nodes. The node ID defines the unique directory. The parent ID is indicating the node ID of a parent category node. The link ID is indicating the node ID of several category nodes when the node type is of a predetermined type. INDEPENDENT CLAIMS are also included for the **following** :

- (a) **Document** classifying;
- (b) **Document** classification program

USE - For classification of **documents** within defined **categories** using class hierarchy in information retrieval system.

ADVANTAGE - Since the automatic **document** classification within user defined **categories** is provided, the user can interactively search for **documents** according to search **terms** defined within user defined **categories** . Since **documents** are ranked according to relevance and a user specified number of **documents** which are most relevant are returned, multiple users can access the **document** via network.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of main procedure utilized in creation of the **document** directory hierarchy.

pp; 19 DwgNo 0/9

Title Terms: **DOCUMENT ; CLASSIFY; INFORMATION; RETRIEVAL; SYSTEM; COMPARE ; TERM ; DOCUMENT ; VECTOR; STORAGE; DOCUMENT ; LOCATE; RELATIVE; CATEGORY; NODE; TERM ; VECTOR; PRESET; RELEVANT; RANK**

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

26/5/22 (Item 22 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013843457 \*\*Image available\*\*  
WPI Acc No: 2001-327670/200134  
Related WPI Acc No: 2001-273156; 2001-342950; 2001-389313  
XRPX Acc No: N01-235732

Category data adding method for manipulating files representing  
Internet web pages, involves mapping several keywords of link data  
item to form category data which is added to the document

Patent Assignee: ARGO INTERACTIVE LTD (ARGO-N)  
Inventor: JELBERT R; TRIBBECK J P  
Number of Countries: 020 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200068833	A2	20001116	WO 2000GB1535	A	20000419	200134 B

Priority Applications (No Type Date): GB 9910685 A 19990507; GB 9910679 A  
19990507; GB 9910682 A 19990507; GB 9910683 A 19990507; GB 9910684 A  
19990507

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200068833	A2	E	33	G06F-017/30	

Designated States (National): JP US  
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

Abstract (Basic): WO 200068833 A2

NOVELTY - A document is searched for a link data item. Several  
keywords are identified within the link data item. The identified  
link keywords are mapped into a category data that is added to the  
document.

DETAILED DESCRIPTION - The data file includes a link data item  
specifying a linked location within specific document. The link  
data item is a hypertext link that includes a universal resource  
identifier. INDEPENDENT CLAIMS are also included for the following:

- (a) apparatus for adding category data to data file;
- (b) recording medium

USE - For manipulating data files representing Internet web  
pages.

ADVANTAGE - Reduces processing and bandwidth requirements, thus  
making the system better suited to real time dynamic operation. The  
document is characterized by analyzing link data rather than  
analyzing the document itself. Each document is reduced to  
suitable size without eliminating significant information to be  
displayed in low resolution display devices such as mobile telephone,  
personal digital assistant.

DESCRIPTION OF DRAWING(S) - The figure shows the system for adding  
graphical data to the document.

pp; 33 DwgNo 8/18

Title Terms: CATEGORY; DATA; ADD; METHOD; MANIPULATE; FILE; REPRESENT;  
WEB; PAGE; MAP; KEYWORD; LINK; DATA; ITEM; FORM; CATEGORY; DATA; ADD;  
DOCUMENT

Derwent Class: T01; T04; W01; W02

International Patent Class (Main): G06F-017/30

File Segment: EPI

26/5/23 (Item 23 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013827738 \*\*Image available\*\*  
WPI Acc No: 2001-311950/200133  
XRPX Acc No: N01-223668

Attribute extractor for structurized documents , extracts and outputs  
attribute value corresponding to indexed position , obtained by  
comparing input document content with prestored attribute schema

Patent Assignee: FUJII XEROX CO LTD (XERF )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001075974	A	20010323	JP 99246880	A	19990901	200133 B

Priority Applications (No Type Date): JP 99246880 A 19990901

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001075974	A		25	G06F-017/30	

Abstract (Basic): JP 2001075974 A

NOVELTY - Contents of input document (1a) are compared with  
prestored attribute schema (1f). Attribute name and its index  
position corresponding to document content are extracted from  
attribute schema, respectively by extractors (1b,1c). Attribute names  
for position not indexed are deleted. Attribute data corresponding  
to indexed positions is extracted by extractor (1d) and outputs the  
data as a list (1e).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
following :

(a) Attribute extracting method;

(b) Recording medium with attribute extracting program

USE - For detecting convergence of attributes in structurized  
documents specified in standard generalized markup language (SGML),  
extensible markup language (XML).

ADVANTAGE - Required attribute is extracted simply without breaking  
the format of document and without being conscious of variations in  
document .

DESCRIPTION OF DRAWING(S) - The figure shows the conceptional  
diagram of attribute extractor (The drawing includes non-English  
language text).

Input document (1a)

Extractors (1b-1d)

List (1e)

Attribute schema (1f)

pp; 25 DwgNo 1/29

Title Terms: ATTRIBUTE; EXTRACT; DOCUMENT ; EXTRACT; OUTPUT; ATTRIBUTE;  
VALUE; CORRESPOND; INDEX ; POSITION ; OBTAIN; COMPARE ; INPUT;  
DOCUMENT ; CONTENT; ATTRIBUTE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/21 ; G06F-017/27

File Segment: EPI

26/5/26 (Item 26 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013514513 \*\*Image available\*\*  
WPI Acc No: 2000-686459/200067  
XRPX Acc No: N00-507510

Visual document indexing method for computer based image analysis ,  
involves providing visual content signature for document by determining  
spatial distribution of visual keywords

Patent Assignee: KENT RIDGE DIGITAL LABS (KENT-N)

Inventor: LIM J; LIM J H

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200043910	A1	20000727	WO 99SG1	A	19990122	200067 B
GB 2362078	A	20011107	WO 99SG1	A	19990122	200169
			GB 200117734	A	20010720	
GB 2362078	B	20030122	WO 99SG1	A	19990122	200308
			GB 200117734	A	20010728	
US 6574378	B1	20030603	WO 99SG1	A	19990122	200339
			US 99341348	A	19990708	

Priority Applications (No Type Date): WO 99SG1 A 19990122

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200043910	A1	E	42	G06F-017/30	
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Designated States (National): GB SG US

GB 2362078	A	G06F-017/30	Based on patent WO 200043910
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GB 2362078	B	G06F-017/30	Based on patent WO 200043910
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US 6574378	B1	G06K-009/54	Based on patent WO 200043910
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Abstract (Basic): WO 200043910 A1

NOVELTY - Visual **keywords** (108) derived from visual tokens (104) which are extracted from visual **documents** (100) are **compared** with several visual tokens of other visual **documents** (120). Spatial distribution of visual **keywords** is determined based on **comparison** result which is represented by three dimensional map of detected **locations** of the visual **keywords** to provide visual content signature for the **document** (100).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following :

- (a) visual **document indexing** program;
- (b) visual **document indexing** apparatus

USE - For classifying and searching image data dependent upon content of image data for computer based image **analysis** .

ADVANTAGE - Since a statistically based coding method is used to transform signatures into real valued vectors of lower dimensions, the noise in visual content signatures is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram illustrating visual **keywords** generating system.

Visual **documents** (100,120)

Visual tokens (104)

Visual **keywords** (108)

pp; 42 DwgNo 1/3

Title Terms: VISUAL; **DOCUMENT** ; **INDEX** ; METHOD; COMPUTER; BASED; IMAGE;

**ANALYSE** ; VISUAL; CONTENT; SIGNATURE; **DOCUMENT** ; DETERMINE; SPACE;

DISTRIBUTE; VISUAL; **KEYWORD**

Derwent Class: T01

International Patent Class (Main): **G06F-017/30** ; G06K-009/54

International Patent Class (Additional): G06T-007/40

File Segment: EPI

26/5/32 (Item 32 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012570419 \*\*Image available\*\*  
WPI Acc No: 1999-376526/199932  
XRPX Acc No: N99-281553

Searching method for documents similar to one held by user in  
database records - involves establishing frequency count of specific  
character rows in user held document , and matching them against  
corresponding character row counts in test documents

Patent Assignee: HITACHI LTD (HITA )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11143902	A	19990528	JP 97309078	A	19971111	199932 B

Priority Applications (No Type Date): JP 97309078 A 19971111

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11143902	A		27	G06F-017/30	

Abstract (Basic): JP 11143902 A

NOVELTY - Database held in a magnetic disk (105) has text of  
individual documents (103). The frequency of appearance file (104)  
records frequency counts of specific character rows of each document  
. From the user held document , characteristic character rows are  
identified along with the frequency counts and a comparison of such  
counts is effected to screen a document from the database.

USE - For searching document similar to one held by user in  
database records .

ADVANTAGE - Affords high precision high speed search of document  
in database, without need to use a word dictionary. DESCRIPTION OF  
DRAWING(S) - The sketch gives the details of main internal memory  
organization holding the control programs involved in the database  
search along with the overall layout of the associated modules. (103)  
Text; (104) Frequency of appearance file for character rows; (105)  
Magnetic disc.

Dwg.1/25

Title Terms: SEARCH; METHOD; DOCUMENT ; SIMILAR ; ONE; HELD; USER;  
DATABASE; RECORD ; ESTABLISH; FREQUENCY; COUNT; SPECIFIC; CHARACTER; ROW  
; USER; HELD; DOCUMENT ; MATCH ; CORRESPOND; CHARACTER; ROW; COUNT;  
TEST; DOCUMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

26/5/35 (Item 35 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012289814 \*\*Image available\*\*  
WPI Acc No: 1999-095920/199908  
XRPX Acc No: N99-069692

Filing method for automatically organising computer information -  
involves associating profiles with folders and extracting data from new  
files to identify which folders to store it in

Patent Assignee: INTEL CORP (ITLC )  
Inventor: MILLER J D; MILLIER M A; PANDIT M S  
Number of Countries: 082 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9900724	A2	19990107	WO 98US11392	A	19980605	199908 B
AU 9877214	A	19990119	AU 9877214	A	19980605	199922
US 5899995	A	19990504	US 97884755	A	19970630	199925

Priority Applications (No Type Date): US 97884755 A 19970630

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9900724	A2	E	41	G06F-007/00	
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Designated States (National): AL AM AT AZ BA BB BG BR BY CA CH CN CU CZ  
DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT UA UG UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9877214	A	G06F-007/00	Based on patent WO 9900724
US 5899995	A	G06F-017/30	

Abstract (Basic): WO 9900724 A

The filing system has folders holding information in a hierarchial  
**organisation** . Each folder has an associated set of profiles and  
constraint expressions. When a **file** is to be stored, it is scanned  
and its **features** extracted. These are compared with the profiles of  
each folder. If the **features** match the folder profiles the **features**  
are evaluated **against** the constraints. If the constraints are  
satisfied the **file** is stored in that folder.

The **features** extracted can include simple **file** attributes;  
**file** contents both in **terms** of types of information, e.g. URL's, or  
actual **terms** . The profiles also track user changes to the structure  
to learn how information is to be **filed** .

ADVANTAGE - Stores **files** automatically based on their contents  
rather than on an application basis.

Dwg.2b/9

Title Terms: **FILE** ; METHOD; AUTOMATIC; **ORGANISE** ; COMPUTER; INFORMATION;  
ASSOCIATE; PROFILE; FOLDER; EXTRACT; DATA; NEW; **FILE** ; IDENTIFY; FOLDER;  
STORAGE

Derwent Class: T01

International Patent Class (Main): G06F-007/00; **G06F-017/30**

File Segment: EPI

26/5/36 (Item 36 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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011931080 \*\*Image available\*\*  
WPI Acc No: 1998-347990/199830  
XRPX Acc No: N98-271680

Database index maintenance method - involves collating index  
entries according to file tiers which are periodically merged

Patent Assignee: DIGITAL EQUIP CORP (DIGI )

Inventor: BURROWS M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5765168	A	19980609	US 96696816	A	19960809	199830 B

Priority Applications (No Type Date): US 96696816 A 19960809

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5765168	A		42	G06F-017/30	

Abstract (Basic): US 5765168 A

The **indexing** method involves **indexing** batches of **records** by storing **index** entries in a memory, each **index** entry including a **word** entry for each unique portion of information of the database, and one or more **location** entries pointing at occurrences of the portions of information. The **index** entries are **collated** according to the order of the **word** entries, and **sequentially** according to the **locations** of each **word** entry.

The **index** entries are **organized** in a number of tiers of **files**, there at least initially being one tier of **files** for each batch of **records indexed**. A subsequently produced tier of **files** is periodically merged with a previously produced tier of **files** to produce a merged tier of **files**, the **index** entries being a logical union of the **index** entries of the subsequently and previous produced tiers of **files**.

ADVANTAGE - Supports maintenance of database **index** as **records** are added and deleted.

Dwg.9/26

Title Terms: DATABASE; **INDEX** ; MAINTAIN; METHOD; **COLLATE** ; **INDEX** ; ENTER  
; ACCORD; **FILE** ; TIER; PERIOD; MERGE

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI



26/5/38 (Item 38 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011558777 \*\*Image available\*\*  
WPI Acc No: 1997-535258/199749  
Related WPI Acc No: 1995-185388  
XRPX Acc No: N97-445675

Observing and comparing visual and textual record of repetitive or related events, e.g. behavioural activities - has software for searching and retrieving audio-visual and text data regarding selected event, for searching glossary of keywords, for searching relationship chart and searching sequentially through audio-visual records

Patent Assignee: ETHNOGRAPHICS INC (ETHN-N)  
Inventor: MASCHA M; SEAMAN G W; WILLIAMS H F  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5682330	A	19971028	US 93158010	A	19931124	199749 B
			US 95435651	A	19950505	

Priority Applications (No Type Date): US 95435651 A 19950505; US 93158010 A 19931124

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5682330	A	12	G06F-015/82	CIP of application US 93158010	
				CIP of patent US 5414644	

Abstract (Basic): US 5682330 A

Repetitive or related events are observed and compared and recorded on a viewable media. The visual record is converted into a digital format, which is stored in a database at an identifiable location. A textual database comprising written descriptions of the visual record and a glossary of key words identifying repetitive events are established and stored, the stored information constituting an information library. The library is stored in a microprocessor system, the microprocessor programmed so that a user can search and retrieve multiple images of a selected event, precursor visual images of events prior to the event in time, responsive activity showing events subsequent to the selected event and contemporaneous events, all retrieved visual images including textual information.

The user can automatically update, reorder, supplement, and expand the information library as desired by accessing the original source of the information through use of an electronic network, comparing the information stored on the system with information available at the original source and selectively adding new information at the original source to the record stored in the microprocessor system.

ADVANTAGE - Allows behaviour or cognitive processes to be understood and quantified, and performance and responses to be predicted.

Dwg.1/3

Title Terms: OBSERVE; COMPARE ; VISUAL; TEXT; RECORD ; REPEAT ; RELATED; EVENT; BEHAVE; ACTIVE; SOFTWARE; SEARCH; RETRIEVAL; AUDIO; VISUAL; TEXT; DATA; SELECT; EVENT; SEARCH; KEYWORD ; SEARCH; RELATED; CHART; SEARCH; SEQUENCE; THROUGH; AUDIO; VISUAL; RECORD

Derwent Class: T01

International Patent Class (Main): G06F-015/82

International Patent Class (Additional): G06F-017/30

File Segment: EPI

26/5/44 (Item 44 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

009483668 \*\*Image available\*\*  
WPI Acc No: 1993-177203/199322  
XRPX Acc No: N93-135811

**Electronic processing for excerpting and summarising uncoded document image - using automatic or iterative morphological image recognition technique to produce summaries based on identified significant portions**

Patent Assignee: XEROX CORP (XERO )  
Inventor: BAGLEY S C; BLOOMBERG D S; CASS T A; HALVORSEN P; HUTTENLOCHER D P; KAPLAN R M; RAO R R; WITHGOTT M M; RAO R B; HALVORSEN P K  
Number of Countries: 006 Number of Patents: 008  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 544432	A2	19930602	EP 92310433	A	19921116	199322 B
CA 2077274	A	19930520	CA 2077274	A	19920901	199332
EP 544432	A3	19931222	EP 92310433	A	19921116	199515
US 5491760	A	19960213	US 91794543	A	19911119	199612
			US 94240284	A	19940509	
CA 2077274	C	19970715	CA 2077274	A	19920901	199740
EP 544432	B1	19990707	EP 92310433	A	19921116	199931
DE 69229537	E	19990812	DE 629537	A	19921116	199938
			EP 92310433	A	19921116	
JP 3292388	B2	20020617	JP 92302726	A	19921112	200242

Priority Applications (No Type Date): US 91794543 A 19911119; US 94240284 A 19940509

Cited Patents: No-SR.Pub; 4.Jnl.Ref; FR 2453451; JP 2093866; JP 59135576

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 544432	A2	E	10	G06K-009/00	
Designated States (Regional): DE FR GB					
CA 2077274	A			H04N-001/41	
EP 544432	A3			G06K-009/00	
US 5491760	A	324		G06K-009/46	Cont of application US 91794543
CA 2077274	C			H04N-001/41	
EP 544432	B1	E		G06K-009/00	
Designated States (Regional): DE FR GB					
DE 69229537	E			G06K-009/00	Based on patent EP 544432
JP 3292388	B2	10		G06F-017/30	Previous Publ. patent JP 5242142

Abstract (Basic): EP 544432 A

The electronic processing method involves sequencing the **document** into image units without decoding the **document** image. Significant image units are **identified** in accordance with selected morphological image **characteristics**. An abbreviated **document** image is created based on the **identified** significant image units.

The image units are classified according to frequency of occurrence and according to **location** within the **document** image. The selected morphological image **characteristics** include **characteristics** defining image units having predetermined linguistic **criteria** and include an image unit shape dimension, front, typeface, pixel density and cross-sectional **characteristic**.

ADVANTAGE - Provides **document** summary without decoding contents.  
Dwg.1/2

Title Terms: ELECTRONIC; PROCESS; SUMMARY; **DOCUMENT**; IMAGE; AUTOMATIC; **ITERATIVE**; MORPHOLOGY; IMAGE; RECOGNISE; TECHNIQUE; PRODUCE; BASED; IDENTIFY; SIGNIFICANT; PORTION

Derwent Class: T01; T04

International Patent Class (Main): **G06F-017/30**; G06K-009/00; G06K-009/46; H04N-001/41

International Patent Class (Additional): G06F-015/401; G06K-009/20

File Segment: EPI

Set	Items	Description
S1	673811	DOCUMENT? OR FILE? OR RECORD? ? OR PAGE? OR MANUSCRIPT? OR EMAIL? OR (E OR ELECTRONIC) () (MAIL? OR MESSAG?)
S2	2124288	CATEGORI? OR ORGANI? OR INDEX? OR IDENTIFI?
S3	925454	CRITERIA? OR CHARACTERISTIC? OR FEATUR?
S4	1839521	TERM? OR WORD? OR SUBJECT? OR PHRASE? OR CONCEPT? OR KEYWORD? OR KEYTERM? OR KEY() (WORD? OR TERM? OR PHRASE?)
S5	3272993	PLACEMENT? OR LOCATION? OR POSITION? OR ORGANI?ATION OR ARRANGEMENT? OR (SENTENC? OR PARAGRAPH? OR PAGE?) () (NUMBER?)
S6	2831822	NEXT? OR FOLLOWING? OR SEQUENTIAL? OR ANOTHER? OR AGAIN? OR REPEAT?
S7	3060282	COMPAR? OR DUPLICAT? OR SAME? OR SIMILAR? OR MATCH? OR ANALY? OR CORRELAT? OR COLLAT? OR SIMILAR?
S8	71144	S1 AND S2
S9	5199	S8 AND S3
S10	1680	S9 AND (S4 OR S5)
S11	1087	S10 AND (S6 OR S7)
S12	207	S9 AND S4 AND S5
S13	99	S12 AND (S6 OR ITERAT? OR REITERAT?)
S14	24	S13 AND IC=G06F-017?
S15	16	S13 AND MC=(T01-J05B?)
S16	28	S14 OR S15
S17	4579	S1 AND S7 AND S4 AND S5
S18	1510	S17 AND (S6 OR ITERAT? OR REITERAT? OR FOLLOWING)
S19	530	S18 AND (S2 OR S3)
S20	112	S19 AND IC=G06F-017?
S21	26126	S1(4N)S7
S22	35	S20 AND S21
S23	23	S22 AND MC=T01-J05B?
S24	47	S23 OR S16
S25	47	IDPAT (sorted in duplicate/non-duplicate order)
S26	46	IDPAT (primary/non-duplicate records only)
S27	30319	(MULITPLE OR PLURALITY OR MULTIPLICITY OR PLURAL OR SEVERAL OR SECOND OR 2ND OR ADDITIONAL OR MANY OR VARIOUS OR SEVERAL OR DIFFERENT) (2N)S3
S28	77762	S1 AND (S2 OR RANK OR RANKS OR RANKING OR RANKED OR SORT OR SORTING OR SORTED OR SORTS)
S29	227	S27 AND S28
S30	72	S29 AND S6
S31	17	S30 AND IC=G06F-017?
S32	6	S31 AND MC=T01-J05B?
S33	17	S32 OR S31
S34	16	S33 NOT S26
S35	8	S34 NOT AD=20000309:20020309
S36	7	S35 NOT AD=20020309:20040922

File 347:JAPIO Nov 1976-2004/May(Updated 040903)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200459  
(c) 2004 Thomson Derwent

36/5/5 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012933136 \*\*Image available\*\*  
WPI Acc No: 2000-104983/200009  
XRPX Acc No: N00-080635

**Category confidence level determining system for use during document categorization**

Patent Assignee: INT BUSINESS MACHINES CORP (IBM )

Inventor: PRAGER J M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6003027	A	19991214	US 97976349	A	19971121	200009 B

Priority Applications (No Type Date): US 97976349 A 19971121

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6003027	A	16	G06F-017/30	

Abstract (Basic): US 6003027 A

NOVELTY - A CPU (120) executes **categorization** of several **documents** (140) having specific size and **feature** into **several categories** each corresponding to a score in result table. The confidence level for each category is determined by taking product of two credibility's and normalizing the product with **another** credibility.

DETAILED DESCRIPTION - The credibility's are weighed by raising each of the credibility's to a power that is function of size of the **document**. The function is expressed by  $\log(1+N/K)$ , where N is size of **document** measured by number of features of the **document** and K is constant of value greater than one and less than N. The confidence level is determined at an optional empirical value of K. The **documents** are tagged by the category with highest confidence level to which **document** is then routed.

An INDEPENDENT CLAIM is also included for **categorization** level verifying method.

USE - For use during **categorizing** of objects such as books, articles, reports, pictures, movies or recordings stored in memory of computer in network environment e.g. LAN, WAN, internet, etc. Also for **categorizing documents** such as **electronic mail**, scientific articles, news stories, business information, sports information, requests to service **organization**, claim, letter, transcription of telephone calls, etc.

ADVANTAGE - **Categorization** results can be accepted without need for human intervention by setting confidence value suitably corresponding to selected error rate. As confidence level of **document categorizing** is improved efficiently, **documents** can be routed or tagged with the category to proper destination.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of confidence level determining system.

CPU (120)

**Document** (140)

pp; 16 DwgNo 1/8

Title Terms: CATEGORY; CONFIDE; LEVEL; DETERMINE; SYSTEM; **DOCUMENT**

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

Set	Items	Description
S1	1123343	DOCUMENT? OR FILE? OR RECORD? ? OR PAGE? OR MANUSCRIPT? OR EMAIL? OR (E OR ELECTRONIC) () (MAIL? OR MESSAG?)
S2	854194	CATEGORI? OR ORGANI? OR INDEX? OR IDENTIFI? OR SORT OR SORTS OR SORTING OR RANK OR RANKS OR RANKING OR RANKED OR SORTED
S3	887208	CRITERIA? OR CHARACTERISTIC? OR FEATUR?
S4	1148608	TERM? OR WORD? OR SUBJECT? OR PHRASE? OR CONCEPT? OR KEYWORD? OR KEYTERM? OR KEY() (WORD? OR TERM? OR PHRASE?)
S5	1195027	PLACEMENT? OR LOCATION? OR POSITION? OR ORGANI?ATION OR ARRANGEMENT? OR (SENTENC? OR PARAGRAPH? OR PAGE?) () (NUMBER?)
S6	1404530	NEXT? OR ITERAT? OR REITERAT? OR FOLLOWING? OR SEQUENTIAL? OR ANOTHER? OR AGAIN? OR REPEAT?
S7	1431010	COMPAR? OR DUPLICAT? OR SAME? OR SIMILAR? OR MATCH? OR ANALY? OR CORRELAT? OR COLLAT? OR SIMILAR?
S8	119022	S3(2N) (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR - MANY OR SEVERAL OR VARIOUS OR DIFFERENT OR SECOND OR 2ND)
S9	570	S1(10N)S2(10N)S3(10N)S4(10N)S5
S10	220	S6(S)S9
S11	184	S6(10N)S9
S12	251	S1(5N)S2(10N)S8
S13	148	(S11 OR S12) AND IC=(G06F-017/60 OR G06F-017/30 OR G06F-01-7/27)
S14	118404	S1(3N) (S2 OR S7)
S15	145	S13 AND S14
S16	21	S8(10N)S11
S17	5	S16 AND S13
S18	527	S14(3N)S4(5N)S6
S19	15	S13 AND S18
S20	36	S16 OR S19
S21	29	S20 AND IC=G06F?
S22	29	IDPAT (sorted in duplicate/non-duplicate order)
S23	29	IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2004/Sep W01		
(c) 2004 European Patent Office		
File 349:PCT FULLTEXT 1979-2002/UB=20040909,UT=20040902		
(c) 2004 WIPO/Univentio		

23/3,K/3 (Item 3 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00602441

Method for resolution of natural-language queries against full-text databases

Verfahren, um natursprachliche Abfragen von Textdatenbanken zu lösen

Procédé pour résoudre des demandes en langage naturel dans des bases de données de textes

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 597630 A1 940518 (Basic)  
EP 597630 B1 020731

APPLICATION (CC, No, Date): EP 93308829 931104;

PRIORITY (CC, No, Date): US 970718 921104

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;  
NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/27 ; G06F-017/30

ABSTRACT WORD COUNT: 168

NOTE:

Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200231	1139
CLAIMS B	(German)	200231	1201
CLAIMS B	(French)	200231	1291
SPEC B	(English)	200231	11289

Total word count - document A 0

Total word count - document B 14920

Total word count - documents A + B 14920

INTERNATIONAL PATENT CLASS: G06F-017/27 ...

... G06F-017/30

...SPECIFICATION present invention are completely integrated, more advanced mechanisms for matching the syntax of the query **against** the syntax of the **matching** terms in the **document** can be employed.

6. **Term** Specificity and Information Content Certain terms, such as "stuff", "things", and "information", are especially vague...

...CLAIMS senses are semantically linked and to develop link strengths indicating the semantic closeness of the **term** senses.

9. The method of claim 1 wherein step (c) comprises a **ranking** according to at least one of the **following criteria** : inverse **document** frequency; syntactic **position** ; part of speech; application of a predetermined **concept** tree; part of speech; predetermined **ranking** ; and explicit selection by a human user.

10. The method of Claim 1 wherein step (d) of identifying **documents** further comprises the steps of:

(d1) identifying in a rank order, sets of **documents** within said database containing one or more documents which contain at least one said likely...

23/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00463080

Mass document storage and retrieval system.

Massenspeicher- und Wiederauffindungssystem für Dokumente.

Memoire de masse et système de recouvrement pour des documents.

PATENT ASSIGNEE:

Froesel, Horst, (1374080), Gutenbergstrasse 2-4, W-6944 Hemsbach, (DE),  
(applicant designated states: DE;FR;GB;IT;NL;SE)

INVENTOR:

Froesel, Horst, Gutenbergstrasse 2-4, W-6944 Hemsbach, (DE)

LEGAL REPRESENTATIVE:

Frei, Alexandra Sarah (49784), Frei Patentanwaltsbüro Hedwigsteig 6  
Postfach 768, CH-8029 Zurich, (CH)

PATENT (CC, No, Kind, Date): EP 465818 A2 920115 (Basic)  
EP 465818 A3 930107

APPLICATION (CC, No, Date): EP 91108916 910531;

PRIORITY (CC, No, Date): US 536769 900612

DESIGNATED STATES: DE; FR; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS: G06F-015/403

ABSTRACT WORD COUNT: 109

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1733
SPEC A	(English)	EPABF1	7096
Total word count - document A			8829
Total word count - document B			0
Total word count - documents A + B			8829

INTERNATIONAL PATENT CLASS: G06F-015/403

...SPECIFICATION it can be recognized for later conversion.)

E. Perform all table checks, including a check **against** the above-mentioned table to see if the **word** is important (if not, the process ends) and, if it is, a check of the existing search **word** table to see if the search **word** already exists.

F. If the search **word** is not in the table, add it.

It will be apparent that such **criteria** can be changed to suit the business practices and policies of the **organization**; a government bureau will have quite **different criteria** from a manufacturing company. The general approach, however, is likely to be quite the same in that essential identifying material is extracted from each **document** such that the **document** can be located and retrieved **again**, as needed, with minimal recall of specific information. Furthermore, the essential identifying information is extracted...

23/3,K/6 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01091743 \*\*Image available\*\*

DESKTOP CLIENT INTERACTION WITH A GEOGRAPHIC TEXT SEARCH SYSTEM  
INTERACTION DE CLIENT DE TABLE AVEC UN SYSTEME DE RECHERCHE GEOGRAPHIQUE DE  
TEXTE

Patent Applicant/Assignee:

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US, US (Residence), US (Nationality)

Inventor(s):

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Legal Representative:

PRAHL Eric L (et al) (agent), Hale and Dorr LLP, 60 State Street, Boston,  
MA 02109, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200413776 A2-A3 20040212 (WO 0413776)

Application: WO 2003US24352 20030804 (PCT/WO US03024352)

Priority Application: US 2002401165 20020805

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD  
SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 16972

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... score is a measure of the degree to which the document relates to the  
spatial **location** mentioned in its spatial information content. In cases  
where the document has more than one...

...of spatial information content, the document is scored against each  
instance.

The spatial-keyword document **indexer** examines each document in the  
spatial I 0 document collection and represents it in an spatial-keyword  
**document index** data structure. The spatial-keyword **document indexer**  
**indexes** a **document** both by keywords and by at least one instance of  
spatial information content. The spatial-keyword **document index**  
enables unusually fast responses by the computer system to queries that  
combine spatial **criteria** with keyword **criteria**.

The crawler extends the collection of known **documents** by examining the  
hyperlinks contained in the known **documents**. When a hyperlink  
references a previously unknown **document**, the crawler adds the unknown  
**document** to the collection of known **documents** and examines them, in  
turn, for new hyperlinks to follow.

The crawler may prioritize the...to index arbitrarily complex sets of  
documents.

The search 50 process uses the spatial document **index** 503 and spatial-  
keyword document **index** 50,5 to find documents that refer to a given



set of domain **locations** or regions, and documents related to a given set of **keywords** existing in the **word** lexicon 225. The search 50 process can also find **documents** using a lexical tree 508, such as might represent a filter. Thus, the search 50 process can respond to queries that seek **documents** according to spatial domain **criteria** , **keyword criteria** , filters, or any combination thereof. Furthermore, the search 50 process can invoke the **document** ranker 56 process to **rank** the result set of **documents** by relevance to the query terms.

23/3,K/12 (Item 12 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00912809 \*\*Image available\*\*

SYSTEM FOR FULFILLING AN INFORMATION NEED USING EXTENDED MATCHING  
TECHNIQUES

SYSTEME PERMETTANT DE REpondre A UN BESOIN D'INFORMATION PAR DES TECHNIQUES  
D'APPARIEMENT APPROFONDIES

Patent Applicant/Assignee:

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ROCHE Emmanuel, c/o Teragram, 236 Huntington Avenue, Boston, MA 02115, US

Legal Representative:

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Street, Boston, MA 02109, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200246970 A2-A3 20020613 (WO 0246970)

Application: WO 2001US46542 20011205 (PCT/WO US01046542)

Priority Application: US 2000251608 20001205

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 24863

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... query. The contexts are obtained from a body of information such as a  
collection of **documents**. The query may consist of fully specified terms  
or partially and/or unspecified terms. The...

...the query can comprise contexts themselves or portions thereof, in  
addition to or instead of **document identifiers** or **locations**. A  
**feature** of the invention in this aspect is that rather than searching  
**documents** containing query terms, the system searches contexts that  
contain the terms.

In **another** aspect, the invention is a system for creating an **index**  
identifying 1 0 contexts for terms, the contexts occurring within  
**documents** in a database. The system first selects a document in the  
database and then selects a **term** within the document. The system  
**identifies** contexts for the **term** within the document, the contexts  
corresponding to strings within the document that contain the **term** . .  
The system further stores information identifying the document and  
associating the 1 5 document identifier with the context. Thus, a given  
**term** may have multiple contexts within several document For a given  
term, in addition to storing...

...preferably all, of the contexts for the term within a given document,  
the system selects **another term** within the **document** and **identifies**  
contexts for that **term** within the **document**. The context  
**identification** process continues for the selected document until a set  
of contexts has been identified for...from the 157h entry in array FT 52

it is known how many more documents **following** that first **document** may be **identified** as containing the **term** Senator. The **term** JNHUAV is similarly processed. Suppose that it is determined that the terms appear. in the...context identifier (doc20) for doc7 satisfying the Boolean  
53  
expression, match engine 34 would then **compare** the **next document identifier of term** Senator, doc8, to doc7 of **term** [NHUM].

Steps 505 through 513 are **repeated** until either no more documents and contexts containing potential matches are found or until no...

23/3,K/14 (Item 14 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00887155 \*\*Image available\*\*

**METHOD AND SYSTEM FOR SEARCHING STORED INFORMATION ON ONE OR MORE COMPUTERS  
PROCEDE ET SYSTEME DE RECHERCHE D'INFORMATIONS STOCKEES DANS UN OU  
PLUSIEURS ORDINATEURS**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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LEWIS Timothy Grant, 68 Kent Street, Ascot Vale, VIC 3032, AU, AU  
(Residence), AU (Nationality), (Designated only for: US)

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Exchange Centre, 530 Collins Street, Melbourne, VIC 3000, AU,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200221325 A1 20020314 (WO 0221325)  
Application: WO 2001AU1111 20010904 (PCT/WO AU0101111)  
Priority Application: AU 20009868 20000904; AU 20016308 20010711

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK  
SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 9332

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... it is necessary to devise easily computable yet accurate means for  
approximating relevance. A basic **index** format provides **record**  
**identifications** ('document IDs') **against** particular **index** terms,  
and when a **word** query is entered by a user this is simply matched  
against the index terms to...returned to the user.

If a user submits a search query comprising more than one **word**, such as  
the boolean query ("b" AND "c" AND "d"), the search engine scans **word**  
list 330 for each of the **words** "b," "c" and "d", then examines the  
positional data associated with each character to determine whether they  
occurred in the same **document**. If more than one instance is found where  
all of the **words** in the search query occur on the same **page**, those  
instances can be differentiated by looking at further **criteria** such as  
the position of those **words** on each **page**. Once again, in accordance  
with the methodology of the present invention, the closer the search  
terms are to the top of a **document identified**, the higher the **rank**  
(presumed pertinence) of that **document**. In addition, the number of  
occurrences of those **words** on each page can be applied to filter the  
results (the more occurrences, the higher the **rank**), as well as the  
proximity of those **words** to one another on each page (the closer they  
are, the higher the rank).

Figure 4 is a diagram showing in detail a preferred way in which basic  
**positional** data is recorded for each unique indexable item on a given

page of stored information..

23/3,K/16 (Item 16 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00829916 \*\*Image available\*\*

**SPATIALLY CODING AND DISPLAYING INFORMATION**  
**CODAGE SPATIAL ET AFFICHAGE D'INFORMATIONS**

Patent Applicant/Assignee:

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DONOGHUE Karen, 122 Lake Street, Arlington, MA 02474, US,

Legal Representative:

PRAHL Eric L (agent), Fish & Richardson P.C., 225 Franklin Street,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200163479 A1 20010830 (WO 0163479)

Application: WO 2001US40173 20010222 (PCT/WO US0140173)

Priority Application: US 2000183971 20000222; US 2000201839 20000503

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 18520

Main International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description

Detailed Description

... score is a measure of the degree to Which the document relates to the  
spatial **location** mentioned in its spatial information content. In cases  
where the document has more than one...

...of spatial information content, the document is scored against each  
instance.

The spatial-keyword document **indexer** examines each document in the  
spatial document collection and represents it in an spatial-keyword  
**document index** data structure.

The spatial-keyword **document indexer indexes** a **document** both by  
keywords and by at least one instance of spatial information content. The  
spatial-keyword **document index** enables unusually fast responses by  
the computer system to queries that combine spatial **criteria** with  
keyword **criteria** .

The crawler extends the collection of known **documents** by examining the  
hyperlinks contained in the known **documents** . When a hyperlink  
references a previously unknown **document** , the crawler adds the unknown  
**document** to the collection of known **documents** and examines them, in  
turn, for new hyperlinks to follow.

The crawler may prioritize the...icon class has first visual  
characteristics and the icon of the second icon class has **second**  
.visual **characteristics** that are **different** from the visual  
characteristics associated with the first icon class. At least some of  
the **records identified** by the plurality of record identifiers are of  
a first type and at least some performed with a spatial- **keyword**  
**document index** .

In general, in still **another** aspect, the invention is a method of

retrieving a plurality of record identifiers each...  
...layer identifier as specified by search criteria, wherein such  
retrieving is performed with a spatial- **keyword document index** .

Preferred embodiments include one or more of the **following** features.  
The spatialkeyword document index includes a spatial index tree extended  
to reference documents and...of tree addresses of leaves in a trimmed  
result tree. For example, given a candidate **word** or **phrase** , the SMI  
438 queries the spatial- **keyword document index** 505 to get the  
trimmed result tree for this **word** or phrase and performs the **following**  
operation on this list of addresses.

From the tree, the SMI 438 creates a list...to index arbitrarily complex  
sets of documents.

The search 50 process uses the spatial document **index** 503 and spatial-  
**keyword document index** 505 to find documents that refer to a given set  
of domain **locations** or regions, and documents related to a given set of  
**keywords** existing in the **word** lexicon 225.

The search 50 process can also find **documents** using a lexical tree 508,  
such as might represent a filter. Thus, the search 50 process can respond  
to queries that seek **documents** according to spatial domain **criteria** ,  
**keyword criteria** , filters, or any combination thereof.

Furthermore, the search 50 process can invoke the **document** ranker 56  
process to **rank** the result set of **documents** by relevance to the query  
terms.

The search 50 process answers queries via the procedure in Fig. 6. A  
query includes at least one of the **following** : a bounding region  
specifying a closed shape (typically a polygon in two dimensions), **words**  
, **phrases** , and layers. The bounding region can be the domain frame from  
the map interface 80...

Set	Items	Description
S1	3	AU=(SKOPICKI J? OR SKOPICKI, J?)
S2	3	IDPAT (sorted in duplicate/non-duplicate order)
S3	2	IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/May(Updated 040903)		
(c) 2004 JPO & JAPIO		
File 348:EUROPEAN PATENTS 1978-2004/Sep W01		
(c) 2004 European Patent Office		
File 349:PCT FULLTEXT 1979-2002/UB=20040909,UT=20040902		
(c) 2004 WIPO/Univentio		
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200458		
(c) 2004 Thomson Derwent		



3/5/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013525033 \*\*Image available\*\*

WPI Acc No: 2001-009239/200102

XRPX Acc No: N01-006935

**Method of automatic classification and archiving of a document**

Patent Assignee: SFCE SANYO FRANCE CALCULATRICES ELECTRON (SAOL );

SKOPICKI J (SKOP-I); SFCE SA (SAOL )

Inventor: **SKOPICKI J**

Number of Countries: 025 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1035484	A1	20000913	EP 2000400607	A	20000307	200102 B
FR 2790846	A1	20000915	FR 992925	A	19990309	200102

Priority Applications (No Type Date): FR 992925 A 19990309

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1035484 A1 F 9 G06F-017/30

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

FR 2790846 A1 G06F-017/27

Abstract (Basic): EP 1035484 A1

NOVELTY - The automatic identification uses a computer to analyze data contained in the document according to its content and/or positioning in the document, and compares these with set identification criteria for the document based on content and/or position. Where a match is not obtained a new set of measures and criteria are invoked.

USE - Automatic classification and archiving of document such as client record

ADVANTAGE - Automates inspection of document to extract classification data from the document.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the procedure.

pp; 9 DwgNo 1/1

Title Terms: METHOD; AUTOMATIC; CLASSIFY; DOCUMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/27; G06F-017/30

International Patent Class (Additional): G06F-017/60

File Segment: EPI

3/5/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010621752 \*\*Image available\*\*

WPI Acc No: 1996-118705/199613

XRPX Acc No: N96-099274

**Power distribution housing for computer work-station - has openings for power connections and covered connector for transformers, and stores spare cable**

Patent Assignee: SANYO FRANCE SA (SAOL )

Inventor: **SKOPICKI J**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2723220	A1	19960202	FR 949351	A	19940728	199613 B

Priority Applications (No Type Date): FR 949351 A 19940728

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

FR 2723220 A1 13 G06F-001/18

Abstract (Basic): FR 2723220 A

The distribution and cable storage box (1) is fitted to the rear or bottom of a computer workstation. The box has top and bottom plates (2,3) connected to bands (5) that form the sides of the box. The box houses power distribution outlets to connect power cables for the computer and all its ancillary devices. There is space inside the box to accept excess lengths of power cable.

The box is parallelepipedic in shape and has the approximate dimensions of a desk-top computer case. The bands that form the sides of the case have holes (7) to allow passage of cables and to give access to electrical power outlets. Unused holes are closed by metal strips (6). The bands forming the sides can slide round the periphery of the box. Ancillary devices that are supplied with a transformer are connected to outlets at the top of the box, and a protective cover (9) is placed over these transformers.

ADVANTAGE - Allows computer peripherals, such as printers, screen, scanners, facsimile machines and communication units, to be activated with single switch, and collects spare length of cable to prevent tangling and to give better appearance.

Dwg.1/2

Title Terms: POWER; DISTRIBUTE; HOUSING; COMPUTER; WORK; STATION; OPEN;

POWER; CONNECT; COVER; CONNECT; TRANSFORMER; STORAGE; SPARE; CABLE

Derwent Class: T04; V04

International Patent Class (Main): G06F-001/18

File Segment: EPI

Set	Items	Description
S1	0	AU=(SKOPICKI J? OR SKOPICKI, J?)
File	2:INSPEC	1969-2004/Sep W1 (c) 2004 Institution of Electrical Engineers
File	6:NTIS	1964-2004/Sep W2 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:EI Compendex(R)	1970-2004/Sep W1 (c) 2004 Elsevier Eng. Info. Inc.
File	34:SciSearch(R)	Cited Ref Sci 1990-2004/Sep W1 (c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online	1861-2004/Aug (c) 2004 ProQuest Info&Learning
File	65:Inside Conferences	1993-2004/Sep W2 (c) 2004 BLDSC all rts. reserv.
File	94:JICST-EPlus	1985-2004/Aug W3 (c)2004 Japan Science and Tech Corp(JST)
File	636:Gale Group Newsletter DB(TM)	1987-2004/Sep 16 (c) 2004 The Gale Group
File	647:CMP Computer Fulltext	1988-2004/Sep W1 (c) 2004 CMP Media, LLC
File	674:Computer News Fulltext	1989-2004/Aug W4 (c) 2004 IDG Communications
File	275:Gale Group Computer DB(TM)	1983-2004/Sep 16 (c) 2004 The Gale Group
	?	

Set	Items	Description
S1	2037633	DOCUMENT? OR FILE? OR RECORD? ? OR PAGE? OR MANUSCRIPT? OR EMAIL? OR (E OR ELECTRONIC) () (MAIL? OR MESSAG?)
S2	7129669	CATEGORI? OR ORGANI? OR INDEX? OR IDENTIFI? OR SORT OR SORTS OR SORTING OR RANK OR RANKS OR RANKING OR RANKED OR SORTED
S3	5367089	CRITERIA? OR CHARACTERISTIC? OR FEATUR?
S4	7008697	TERM? OR WORD? OR SUBJECT? OR PHRASE? OR CONCEPT? OR KEYWORD? OR KEYTERM? OR KEY() (WORD? OR TERM? OR PHRASE?)
S5	3215649	PLACEMENT? OR LOCATION? OR POSITION? OR ORGANI?ATION OR ARRANGEMENT? OR (SENTENC? OR PARAGRAPH? OR PAGE?) () (NUMBER?)
S6	4816445	NEXT? OR ITERAT? OR REITERAT? OR FOLLOWING? OR SEQUENTIAL? OR ANOTHER? OR AGAIN? OR REPEAT?
S7	20494549	COMPAR? OR DUPLICAT? OR SAME? OR SIMILAR? OR MATCH? OR ANALY? OR CORRELAT? OR COLLAT? OR SIMILAR?
S8	915853	S3(2N) (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR - MANY OR SEVERAL OR VARIOUS OR DIFFERENT OR SECOND OR 2ND) OR - VECTOR?
S9	699	S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7
S10	127710	S1(2N) (S3 OR S2 OR S7)
S11	179	S9 AND S10
S12	127	S1(3N)S8 AND S6 AND S2
S13	16	S4 AND S5 AND S12
S14	191	S11 OR S13
S15	168	RD (unique items)
S16	143	S15 NOT PY>2000
S17	143	S16 NOT PD>20000309
S18	44	S17 AND (AUTOMATE? OR COMPUTERI? OR SOFTWARE? OR APPLICATION? OR ONLINE OR ON()LINE?)
S19	30	S18 NOT (DB OR DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR RDB OR DBMS)
File	8: Ei Compendex(R)	1970-2004/Sep W1 (c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online	1861-2004/Aug (c) 2004 ProQuest Info&Learning
File	202: Info. Sci. & Tech. Abs.	1966-2004/Sep 09 (c) 2004 EBSCO Publishing
File	65: Inside Conferences	1993-2004/Sep W2 (c) 2004 BLDSC all rts. reserv.
File	2: INSPEC	1969-2004/Sep W1 (c) 2004 Institution of Electrical Engineers
File	94: JICST-EPlus	1985-2004/Aug W3 (c) 2004 Japan Science and Tech Corp(JST)
File	111: TGG Natl. Newspaper Index(SM)	1979-2004/Sep 16 (c) 2004 The Gale Group
File	233: Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	6: NTIS	1964-2004/Sep W2 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal	1973-2004/Sep W1 (c) 2004 INIST/CNRS
File	434: SciSearch(R) Cited Ref Sci	1974-1989/Dec (c) 1998 Inst for Sci Info
File	34: SciSearch(R) Cited Ref Sci	1990-2004/Sep W2 (c) 2004 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Aug (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

19/5/3 (Item 3 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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01559143 E.I. Monthly No: EI8409088690 E.I. Yearly No: EI84031363

**Title: DYNAMIC FILE ORGANIZATION MODEL.**

Author: Davis, R. H.; Coumpas, P.

Corporate Source: Heriot-Watt Univ, Dep of Computer Science, Edinburgh,  
Scotl

Source: Computer Journal v 27 n 2 May 1984 p 143-150

Publication Year: 1984

CODEN: CMPJA6 ISSN: 0010-4620

Language: ENGLISH

Journal Announcement: 8409

Abstract: A dynamic **analytical file organization** is presented which enables the **file** designer to estimate **file** performance and cost **against** time and offers a quantitative solution to **file organization** problems. Costs, measured in **terms** of processing time, reorganization and storage costs, are obtained from the input data **characteristics**, user requirements and hardware specifications. Highly elusive costs such as those for **software** maintenance or system storage are not included. Six common **file organizations** are **featured** and the usefulness of the model as an operational tool is exhibited by means of a representative series of demonstrations with different **file** sizes and types. 17 refs.

Descriptors: DATA PROCESSING--\* **File Organization**

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

19/5/18 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

04097383 JICST ACCESSION NUMBER: 99A0642115 FILE SEGMENT: JICST-E  
Digital Library. Document Processing Utilities to Support Document  
Utilization Cycle Based on Natural Language Processing Technology.

NAKAO YOSHIO (1); OGAWA TOMOYA (1)

(1) Fujitsu Maruchimediashisutemuken

Fujitsu, 1998, VOL.49,NO.6, PAGE.434-438, FIG.3, REF.6

JOURNAL NUMBER: F0397AAQ ISSN NO: 0016-2515 CODEN: FUJTA

UNIVERSAL DECIMAL CLASSIFICATION: 002.5:025.2/.3 681.3:80

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

ABSTRACT: This paper introduces a new **document** list viewer and browser, which are convenient tools that apply natural language processing to support **document** utilization. The **document** utilization process involves a cycle in which required **documents** are first retrieved, then **analyzed** by content. The user can then formulate ideas and create **another document**. Both tools help the user perform essential steps in this cycle. The **document** list viewer provides a well-**organized** list of **documents** by clustering **documents** based on content **similarities**, and by attaching precise summaries generated automatically, the user can quickly find a required **document** even from a long list of retrieved **documents**. With the automatic text summarization function, the **document** browser allows users to skim through a long **document** on a computer display, then interactively creates customized summaries. This paper describes the **features** of these new tools and discusses the requirements for **document** selection and browsing. (author abst.)

DESCRIPTORS: information **arrangement** technique; **word** processing; automatic language processing; user interface; information retrieval; information use; secondary source; clustering; visualization; computer **application** system; electronic library

BROADER DESCRIPTORS: **documentation**; information management; management; computer **application**; utilization; information processing; treatment; interface; retrieval; publications; resource(**document**); modification; system; library

CLASSIFICATION CODE(S): AC04000I; JE06000L

Set	Items	Description
S1	21502	DOCUMENT? OR FILE? OR RECORD? ? OR PAGE? OR MANUSCRIPT? OR EMAIL? OR (E OR ELECTRONIC) () (MAIL? OR MESSAG?)
S2	11456	CATEGORI? OR ORGANI? OR INDEX? OR IDENTIFI? OR SORT OR SORTS OR SORTING OR RANK OR RANKS OR RANKING OR RANKED OR SORTED
S3	18018	CRITERIA? OR CHARACTERISTIC? OR FEATUR?
S4	7395	TERM? OR WORD? OR SUBJECT? OR PHRASE? OR CONCEPT? OR KEYWORD? OR KEYTERM? OR KEY() (WORD? OR TERM? OR PHRASE?)
S5	7317	PLACEMENT? OR LOCATION? OR POSITION? OR ORGANI?ATION OR ARRANGEMENT? OR (SENTENC? OR PARAGRAPH? OR PAGE?) () (NUMBER?)
S6	9249	NEXT? OR ITERAT? OR REITERAT? OR FOLLOWING? OR SEQUENTIAL? OR ANOTHER? OR AGAIN? OR REPEAT?
S7	19053	COMPAR? OR DUPLICAT? OR SAME? OR SIMILAR? OR MATCH? OR ANALY? OR CORRELAT? OR COLLAT? OR SIMILAR?
S8	1861	S3(2N) (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR - MANY OR SEVERAL OR VARIOUS OR DIFFERENT OR SECOND OR 2ND) OR - VECTOR?
S9	7	S1 AND S2 AND S3 AND S4 AND S5 AND S6
S10	4	S1 AND S8 AND S4 AND S5 AND S6
S11	10	S9 OR S10
S12	4	S11 NOT PY>2000
S13	4	S12 NOT PD>20000309

File 256:TecInfoSource 82-2004/Jul  
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